Data Sheet

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PRIMERGY RX100 S3

Mono Processor Rack Server – Optimized in cost, size and complexity for easy deployment

Issue April 20th, 2006

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PRIMERGY RX servers are perfect answers for an IT strategy that seeks to downsize data center infrastructure costs by enhancing transparency of structure, management overhead and maximizing the use of investments.

With RX rack servers and the PRIMECENTER rack enclosures, your benefit from our renowned experience in data center technology, which assures the best quality of data center operation. To guarantee heterogeneous data center assets, the PRIMECENTER modular design accommodates seamless integration of PRIMERGY, PRIMEPOWER compute nodes, storage SAN and NAS subsystems, as well as other infrastructure components such as hubs, KVM switches and more, using a universal power circuit structure.

Cost-effective scaling, simplified operation and enhanced quality of data center IT production are the main benefits in deploying PRIMERGY RX servers. Their centralized PRIMERGY Server View Suite management functions mean less troubleshooting and costs and remote access from anywhere at any time. The flexible custom supply model and our build-to-order process means that only fully built and pre-tested rack solutions are shipped to the customer – shortening your time to production.

PRIMERGY RX100 S3

As business processes and customer bases grow and rely more on Internet technology, data centers face the challenge of rapid enhancements of their front end infrastructure services. Increasingly they are looking for a platform solution that has minimum impact on their budgets, yet is easy to deploy and simple to operate. That is where the RX100 S3 optimally fits in. With technical evolutions like dual core CPU and 8 GB direct addressable memory the PRIMERGY RX100 S3 matches your business application requirements perfectly. It combines the benefits of cost-optimized SATA disk technology, the comfort of integrated RAID data protection with a space-saving 1 U form factor of less than 60 cm in depth. This makes it easy to integrate into any rack enclosures. The set of integrated network and management functions make it a good choice for budget-sensitive infrastructure solutions.

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Key Features	Benefits
■ SATA controller, dual Ethernet, IPMI BMC,	■ Cost-optimized platform for all datacenter front-end operations
■ Intel® Celeron® , Pentium® 4 with EM64T and HT support and Pentium® D with Dual Core and EM64T	■ EM64 Technology now also available for Mono processor and Mono socket ■ Dual Core power for Pentium brings huge performance increase
■ Integrated SATA RAID 0, 1, SATA hot-plug or easy change hard disks	■ Easy to use and data safety

Type	Mono Socket Rack Server
System board	D2004
Chip set	Intel® E7230
Processors	Intel® Celeron® / Pentium® 4 / Pentium® D
Frequencies (GHz)	346 (3.06) / 631 (3.0) / 820 (2.8), 930 (3.0), 940 (3.4)
Front-Side-Bus	533 MHz / 800 MHz / 800 MHz
Second-Level-Cache	256 KB ECC / 2 MB ECC / 2 x 1 MB / 2 x 2 MB ECC
Memory	
512 MB up to max. 8 GB, unbuffered ECC DDR2-533 SDRAM; organized in 2 banks with 2 DIMM slots each, for modules 512 MB, 1 and 2 GB; with dual channel operation better performance (2 modules with equal capacity needed), Single channel (1 module) configuration possible;	
Flash-EPROM	
Local BIOS update from USB floppy disk, USB Memory Bird; Remote BIOS update via LAN (Global Flash tool).	
Interfaces	
Serial	1 x RS-232-C, 9-pin
Keyboard, Mouse	2 x PS/2
USB	1 x front, 2 x back
Graphics	1 x VGA (15-pin)
LAN	2 x RJ45
Front panel	
on/off switch; NMI-, reset button; LED's for system status (amber), identification (blue), hard disks access (green), power (amber/green); (back: system status, identification)	
Onboard controller **	
IDE	ATA100 (for CD / DVD drives)
Intel® ICH7-R	2-port SATA 300 with RAID 0, 1 controller for SATA hot-plug and easy change hard disks
LAN (Broadcom 5721 + 5751)	2x 10/100/1000 Mbit/s Ethernet (PCE-Boot via LAN from PXE server)
Graphics	ATI Rage XL 8 MB
Server management	Baseboard Management Controller (BMC), IPMI 1.5 compatible
Hard disk drives	80 / 160 / 250 / 500 Gbyte (SATA)
1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.	
I/O Slots	1x PCI-X 64-bit / 100 MHz (Standard, short 175 mm, usable for low profile cards, with expansion bracket included into system) and 1x PCI-E x8 (x4 wired) (low profile, 173 mm) **or:** 2x PCI-X 64-bit / 100 MHz (1x Standard, short 175 mm, usable for low profile cards, with expansion bracket included into system, 1x low profile, 173 mm)
Drive bays	
for hard disks	2x 3.5/1-inch hot-plug **or** 2x 3.5/1-inch easy change
for accessible drives	1x 5.25/0.5-inch for CD, DVD/CD-RW option
Electrical values	
Power supply	Standard
Output power	300 W
Rated voltage range	100 - 127, 200 - 240 V
Rated frequency	50-60 Hz
Max. rated current	max. 4 A (100 V - 127 V) max. 2 A (200 V - 240 V)
Rated current in basic configuration	100V – 127V / 1.86A 200V – 240V / 0.98A
Active power	254 W
Apparent power	254 VA
Heat emission	914.4 kJ/h (866.6 btu/h)
Temperature/Noise/Dimension/Weight	
Ambient temperature	10°C - 35°C (DIN IEC 721)
Declared noise emission according to ISO 9296	idle* operating* (*ISO 7779)
L_{WAd} (1 B = 10 dB) :	6.4 B 6,7 B
L_{pAm} (bystander position):	51.7 dB 56.3 dB
Dimensions (HxWxD)	42.5 * 430 * 560 (mm)
Dimension rack mount (HxWxD)	575 mm rack integration depth; 200 mm cable depth; 1 height unit (U)
Rack integration kit	inclusive sliding rails as part of the standard delivery
Weight	approximately 18 kg (depends on configuration)
Compliance with Norm and Standards	
Product safety	
Global	IEC 60950
Europe	EN 60950
USA	UL 60950 3rd. Ed.
Canada	CAN/CSA-C22.2 No. 60950 3rd. Ed.
Electro magnetic compatibility	
Europe	EN 55 022 class A, EN 55024, EN 300386, EN 61000-3-2 / -3,
Taiwan	CNS 13438 class A
Japan	VCCI class A / JEIDA
Australia / New Zealand	C-Tick class A
USA / Canada	FCC class A
Declaration of conformity	
Europe (CE)	89/336/EEEC (EMC); 72/23/EEC (LVD)
North America	FCC class A
Approvals	
Product safety	
Global	CB
Europe	CE
USA / Canada	CSA_{US} / CSA_{C}
Taiwan / China	BSMI / CCC
There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons, can be applied for on request.	
Supported operating systems	
Microsoft: Windows 2003 Standard (x32/x64); Web Edition Microsoft: Windows 2000 Server SUSE: Linux ES-9 (x86/EM64T) Red Hat: Linux EL3 (x86) and 4 (x86/EM64T)	
** For supported controllers (onboard and PCI cards for SCSI, RAID, LAN, WAN, etc.), please refer to the corresponding system configurator.	
Server Management (see separate data sheets)	
Standard	PRIMERGY ServerView Suite; PDA, ASR&R
Optional	RemoteView, RemoteView Service Board (RSB)

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